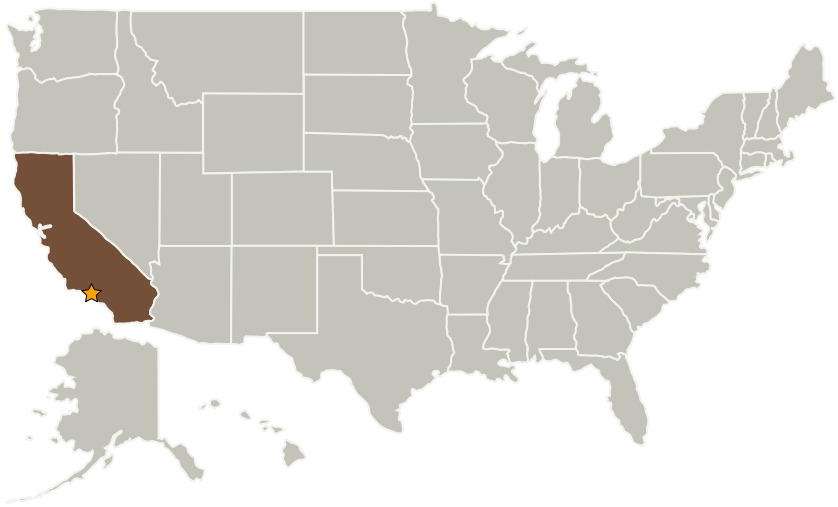
Affordable, Precision Reflector Mold Technology (PDRT08-029), Phase I

Completed Technology Project (2009 - 2009)

Project Introduction

Advances in replication mold technology that reduce material costs, grinding time, and polishing time would enable fabrication of large, precision molds and possibly optics at 50-75% lower cost. Mold cost savings could be applied to other aspects of a telescope mission's technology development and demonstration efforts to reduce large aperture far infrared telescope areal density and improve optical technical performance.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Jet Propulsion Laboratory(JPL)	Lead Organization	NASA Center	Pasadena, California
Vanguard Space Technologies, Inc	Supporting Organization	Industry	San Diego, California

Primary U.S. Work Locations
California

Affordable, Precision Reflector Mold Technology (PDRT08-029), Phase I

Table of Contents

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Jet Propulsion Laboratory (JPL)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Affordable, Precision Reflector Mold Technology (PDRT08-029), Phase I

Completed Technology Project (2009 - 2009)

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Technology Areas

Primary:

- TX08 Sensors and Instruments
  - TX08.1 Remote Sensing Instruments/Sensors
    - TX08.1.1 Detectors and Focal Planes